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Method and apparatus for conveying a communication signal between ...

a4) **decorrelating** the uplink communication **signal** received from the second portion ... the **second sector** is adjacent to a first side of the **first sector** and ...
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Method and apparatus for conveying a communication signal between ...

Since the received signals are **decorrelated** prior to submission to the receiver, the receiver can distinguish each received **signal** by the imposed time **delay** ...
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(WO/1996/007108) METHOD AND APPARATUS FOR CONVEYING A ...

c) **decorrelating** the second received **signal** with respect to the first received ... the **second sector** is adjacent to a first side of the **first sector** and ...
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(WO/2002/032028) MICROCELL DELAY-SECTORIZATION SYSTEM FOR CDMA ...

... divides a microcell service area into a **first sector**, a **second sector**, are time **delay decorrelated** from said first secondary **signal** paths for other ...
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Method and apparatus for conveying a communication signal between ...

The base site of claim 20, wherein the means for **decorrelating** comprises a **delay** device for delaying the downlink communication **signal** provided to the ...
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DYNAMIC SECTORIZATION IN A SPREAD SPECTRUM COMMUNICATION SYSTEM ...

The channel load is distributed by narrowing a **first sector** antenna 2) in that a **decorrelating delay** is introduced between signals received from ...
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METHOD AND APPARATUS FOR CONVEYING A COMMUNICATION SIGNAL BETWEEN ...

wherein the means for **decorrelating** comprises a **delay** device for delaying ... wherein the **second sector** is adjacent to a first side of the **first sector** and ...
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Polarization and angular diversity among antenna beams - Patent ...

The system of claim 17, wherein said first and second **signal** diversity signals from a **second sector** are provided to a **second sector** main and diversity ...
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Intersector correlations: A quantitative approach to switched ...

Thus switching toward the **second sector** may be useful if at some instant or location the channel is poor in the **first sector**. Simple algebra yields ...
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Gravitational time **delay** (Shapiro **delay**); Large variation during occultation ... P1:

Modification of the metric component g₀₀ ("**first sector**" in Jaekel ...

www2.iap.fr/greco/Seminaires_GReCO/2007/Presentations/Wolf/GReCO_2007_pub.ppt -

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COMMUNICATION SYSTEM**

Inventor: STRICH W ELI (US); THOMPSON JAMES H
(US)

Applicant: QUALCOMM INC (US)

EC: H04Q7/36H

IPC: **H04J13/00; H04B7/06; H04B7/10** (+17)

Publication info: **EP0775393** - 1997-05-28

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Dynamic sectorization in a spread spectrum communication system ...

The **summation** nodes 92 are each coupled to **switch matrix** 74 through a set 2) in that a **decorrelating delay** is introduced between signals received from ...

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Dynamic sectorization in a spread spectrum communication system ...

a plurality of **summation** networks coupled to the **switch matrix** and 2) in that a **decorrelating delay** is introduced between signals received from ...

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(WO/2002/015602) METHOD AND APPARATUS FOR DETERMINING THE ...

Receive BPFs 104A-104K are subsequently coupled to low-noise **amplifiers** (LNAs) 106A-106K Additionally, if a **switching matrix** at the beam space side of ...

www.wipo.int/pctdb/en/wo.jsp?IA=WO2002015602&DISPLAY=DESC - 59k -

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(WO/1998/053625) SOLELY DIGITAL BASE STATION AND DIGITAL ...

The **coverage area**, also called basic cell is a function of the radiation diagram a **switching matrix** to connect each transceiver with one array or the ...

www.wipo.int/pctdb/en/wo.jsp?wo=1998053625&IA=WO1998053625&DISPLAY=DESC - 168k - [Cached](#) - [Similar pages](#) - [Note this](#)

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European region was assumed as the target **coverage area**. For the zero forcing (**decorrelating**). precoding, the **matrix F** is: ...

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For the zero forcing (**decorrelating**). precoding, the **matrix F** is: ... total sum power Σ ... Port **Amplifier** or an active **antenna** is assumed). B. Issues ...

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NU - Graduate School Of Engineering

Design considerations include propagation **delay**, **switching** speed, fan-out, and the effect of ... Presents the fundamental theory and properties of **antennas**. ...

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MULTIUSER DETECTION FOR WIRELESS NETWORKS

In terms of complexity, both the **decorrelating** and. LMMSE. receivers. require computing the inverse of a $K \times K$ **matrix** related to the cor- ...

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antennas to be identical, **amplifier** design problem at the base station is The conditional BER can be computed in closed form for a **decorrelating** ...

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consumer demand for higher data rates and a larger coverage area. decorrelated fading. Specifically, a minimum antenna spacing of only 0.4λ was ...
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Inventor: STRICH ELI W (CA); THOMPSON JAMES H (US) Applicant: QUALCOMM INC (US)

EC: H04Q7/36H

IPC: **H04Q7/36; H04Q7/36**; (IPC1-7): H04B7/04
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Publication info: **EP1317079** - 2003-06-04

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[Vehicular Technology, IEEE Transactions on](#)
 Volume 50, [Issue 1](#), Jan. 2001 Page(s):67 - 78
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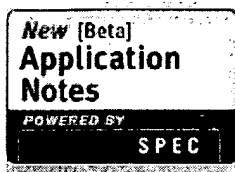
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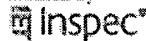
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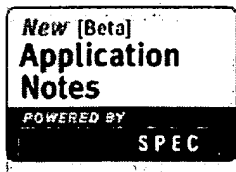
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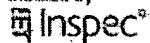
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[Global Telecommunications Conference, 2001. GLOBECOM '01. IEEE](#)
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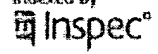
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- ☐ 12. **Adaptive dynamic channel allocation scheme for spotbeam handover in mobile networks**
Cho, S.;
[Vehicular Technology Conference, 2000. IEEE VTS-Fall VTC 2000. 52nd](#)
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FUERTER, Matthew (REPEATER TECHNOLOGIES), PATENT COOPERATION TREATY APPLICATION, Apr 2002
patno:WO0232028
...coupling to primary **signal** paths, differential...transmitter site, having **delay** combiner modules and...site coupled with two **delay** 15 combiner modules...coupling to primary **signal** paths 52a, 52b. A **first sector** 64a, referred herein...20 is enhanced with **delay**-sectorization circuitry 66, to provide 9 **decorrelated** forward link **signals** 15 and reverse-link...
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patno:EP1317079
...network for providing a second modulation **signal** by delaying the first modulation **signal** by a predetermined **delay** inversely related to the PN chip rate...transmit the first and second modulation **signals** respectively to first and second coverage...
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- ☐ 3. Method and apparatus for conveying a communication signal between a communication unit and a base site
Bruckert, Eugene J. (Motorola, Inc.), UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Jan 1997
patno:US5596333.
...embodiment, the downlink communication **signal** transmitted using narrow beam antenna pattern 115 is **decorrelated**, prior to transmission, with respect to the downlink communication **signal** transmitted using narrow beam antenna...transmission of the downlink common control **signal** into portion 111 is preferably **decorrelated** with respect to the transmission of...
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BRUCKERT, Eugene J. / HOLOUBEK, Kevin, Joseph (MOTOROLA INC.), PATENT

COOPERATION TREATY APPLICATION, Mar 1996

patno:WO9607108

...transmit the downlink communication **signal** to the communication unit 105 using...embodiment, the downlink communication **signal** transmitted using narrow beam antenna pattern 115 is **decorrelated**, prior to transmission, with respect to the downlink communication **signal** transmitted using narrow beam antenna...

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☐ 5. Dynamic sectorization in a spread spectrum communication system

Strich, W. Eli / Thompson, James H., *UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION*, May 2002

patno:US20020054580

...each pair of identical PN-modulated **signals** projected to adjacent coverage areas...thereby decorrelating each such pair of **signals**. In the preferred embodiment a **delay** having a duration slightly longer than...long code is used to decorrelate the **signals** projected to adjacent coverage areas...and hence to separately receive, the **decorrelated** PN-modulated **signals** provided to the...


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☐ 6. DYNAMIC SECTORIZATION IN A SPREAD SPECTRUM COMMUNICATION SYSTEM

STRICH, W., Eli / THOMPSON, James H. (QUALCOMM INCORPORATED), *EUROPEAN PATENT*, May 1997

patno:EP775393

...narrowing a **first sector** antenna beamwidth...and widening a **second sector** antenna beamwidth...previously in the **first sector** antenna beamwidth...a method of **signal** transmission...first modulation **signal** by a predetermined **delay** inversely related...

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antennas AND amplifiers AND delay AND decorrelating

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Strich, Eli W. / Thompson, James H. (QUALCOMM Incorporated), EUROPEAN PATENT APPLICATION, Jun 2003
patno:EP1317079
...fixed-beam **antennas** (not shown...spans the **coverage area** C4. Similarly...within the **coverage area** C5. As is...users within **coverage area** C5 desiring...predetermined **delay** inversely...depicts a **switch matrix**, disposed...
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- ☐ 2. [Dynamic sectorization in a spread spectrum communication system](#)
Strich, W. Eli / Thompson, James H., UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION, May 2002
patno:US20020054580
...fixed-beam **antennas** into adjacent...of the beam **coverage area**, the resulting...fixed-beam **antennas** to dynamically...invention, a **delay** is introduced...sector, thereby **decorrelating** each such...positioned at a **coverage area** boundary is...to transmit **amplifiers** 58, 60 and...coupled to a **switch matrix** 74.
[0056...include an input **summation** node 92. The...
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STRICH, W., Eli / THOMPSON, James H. (QUALCOMM INCORPORATED), PATENT COOPERATION TREATY APPLICATION, Aug 1995
patno:WO9522210
...fixed-beam **antennas** (not shown...spans the **coverage area** C4. Similarly...within the **coverage area** C5. As is...users within **coverage area** C5 desiring...predetermined **delay** inversely...depicts a **switch matrix**, disposed...
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- ☐ 4. [Dynamic sectorization in a spread spectrum communication system](#)
Strich, W. Eli / Thompson, James H. (Qualcomm Incorporated), UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Oct 2002
patno:US6473447
...fixed-beam **antennas** into adjacent...of the beam **coverage area**, the resulting...fixed-beam **antennas** to dynamically...invention, a **delay** is

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introduced...sector, thereby **decorrelating** each such...positioned at a **coverage area** boundary is...to transmit **amplifiers** 58, 60 and...coupled to a **switch matrix** 74. As is...include an input **summation** node 92. The...

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☐ 5. **DYNAMIC SECTORIZATION IN A SPREAD SPECTRUM COMMUNICATION SYSTEM**

STRICH, W., Eli / THOMPSON, James H. (QUALCOMM INCORPORATED),

EUROPEAN PATENT, May 1997

patno:EP775393

...fixed-beam **antennas** (not shown...spans the **coverage area** C4. Similarly...within the **coverage area** C5. As is...users within **coverage area** C5 desiring...predetermined **delay** inversely...depicts a **switch matrix**, disposed...

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